

APPENDIX K-4.

Interaction Tables for the Cardiovascular Assessment Occupation, Body Fat, Total Cholesterol, HDL, and Diabetic Class Removed from Final Model

This appendix contains results of exposure analyses of interactions between covariates and dioxin, after occupation, percent body fat, total cholesterol, HDL, and diabetic class have been removed from those final statistical models that used dioxin as a measure of exposure (Models 2 through 6) and contained any of these covariates. These tables are supplements to tables in Appendix K-3, which are main effects results with these covariates removed from the model. Results are presented for separate strata of the covariate and include sample sizes, percent abnormal, relative risks, confidence intervals, and p-values for discrete dependent variables. Sample sizes, adjusted means, differences of adjusted means and confidence intervals or adjusted slopes and standard errors, and p-values are given for continuous dependent variables. Chapter 7, Statistical Methods, provides further details on the analytical approaches used in the interaction analyses. The analysis model, the covariate involved in the interaction, and a reference to the analysis table in Chapter 15, Cardiovascular Assessment, are given in the heading of each subtable. A summary of the interactions described in this appendix follows.

Appendix K-4 Table	Chapter 15 Table	Appendix K-3 Table	Dependent Variable	Model	Covariate
K-4-1	15-5	K-3-3	Verified Myocardial Infarction	4	Race
				5	Race
				6	Race
K-4-2	15-8	K-3-6	Heart Sounds	2	Age
				3	Age
K-4-3	15-10	K-3-8	ECG: Right Bundle Branch Block (RBBB)	2	Lifetime Cigarette Smoking History
K-4-4	15-12	K-3-9	ECG: Non-Specific ST- and T-Wave Changes	3	Lifetime Cigarette Smoking History
K-4-5	15-13	K-3-10	ECG: Bradycardia	3	Personality Type
				4	Personality Type
				5	Personality Type
				6	Personality Type
K-4-6	15-15	K-3-11	ECG: Arrhythmia	2	Current Cigarette Smoking
K-4-7	15-18	K-3-14	Diastolic Blood Pressure (Continuous)	3	History of Heart Disease
K-4-8	15-19	K-3-15	Diastolic Blood Pressure (Discrete)	3	History of Heart Disease

Appendix K-4 Table	Chapter 15 Table	Appendix K-3 Table	Dependent Variable	Model	Covariate
K-4-9	15-20	K-3-16	Funduscopic Examination	2	Race
K-4-10	15-21	K-3-17	Carotid Bruits	2	Lifetime Cigarette Smoking History, History of Heart Disease
				6	History of Heart Disease
K-4-11	15-25	K-3-20	Dorsalis Pedis Pulses	3	Age
K-4-12	15-26	K-3-21	Posterior Tibial Pulses	2	Lifetime Cigarette Smoking History
				3	Current Cigarette Smoking
K-4-13	15-27	K-3-22	Leg Pulses	2	Personality Type
K-4-14	15-28	K-3-23	Peripheral Pulses	2	Personality Type

Table K-4-1.
Interaction Table for Verified Myocardial Infarction
Occupation and HDL Removed from Final Model

a) MODEL 4: RANCH HANDS — CURRENT DIOXIN — ADJUSTED (Current Dioxin-by-Race: Tables 15-5 and K-3-3)				
Current Dioxin Category Summary Statistics				Analysis Results for \log_2 (Current Dioxin + 1)
Stratum	Current Dioxin	n	Percent Yes	Adjusted Relative Risk (95% C.I.) ^a p-Value
Non-Black	Low	277	5.8	1.19 (0.98,1.44)
	Medium	267	6.4	
	High	277	9.0	
Black	Low	12	8.3	0.09 (0.00,5.71)
	Medium	21	0.0	
	High	16	0.0	

b) MODEL 5: RANCH HANDS — CURRENT DIOXIN — ADJUSTED (Current Dioxin-by-Race: Tables 15-5 and K-3-3)				
Current Dioxin Category Summary Statistics				Analysis Results for \log_2 (Current Dioxin + 1)
Stratum	Current Dioxin	n	Percent Yes	Adjusted Relative Risk (95% C.I.) ^a p-Value
Non-Black	Low	280	5.4	1.17 (0.99,1.39)
	Medium	265	6.0	
	High	276	9.8	
Black	Low	13	7.7	0.13 (0.01,2.94)
	Medium	22	0.0	
	High	14	0.0	

Table K-4-1. (Continued)
Interaction Table for Verified Myocardial Infarction
Occupation and HDL Removed from Final Model

c) MODEL 6: RANCH HANDS — CURRENT DIOXIN — ADJUSTED (Current Dioxin-by-Race: Tables 15-5 and K-3-3)					
Stratum	Current Dioxin Category	Summary Statistics		Analysis Results for \log_2 (Current Dioxin + 1)	
		Current Dioxin	n	Percent Yes	
Non-Black	Low	279	5.0	1.15 (0.96,1.39)	0.138
	Medium	265	6.0		
	High	276	9.8		
Black	Low	13	7.7	0.12 (0.01,3.00)	0.199
	Medium	22	0.0		
	High	14	0.0		

^a Relative risk for a twofold increase in current dioxin.

Note: Model 4: Low = \leq 8.1 ppt; Medium = $>$ 8.1-20.5 ppt; High = $>$ 20.5 ppt.

Models 5 and 6: Low = \leq 46 ppq; Medium = $>$ 46-128 ppq; High = $>$ 128 ppq.

Table K-4-2.
Interaction Table for Heart Sounds
Diabetic Class Removed from Final Model

a) MODEL 2: RANCH HANDS — INITIAL DIOXIN — ADJUSTED (Initial Dioxin-by-Age: Tables 15-8 and K-3-6)					
Stratum	Initial Dioxin Category Summary Statistics			Analysis Results for Log _e (Initial Dioxin)	
	Initial Dioxin	n	Percent Abnormal	Adjusted Relative Risk (95% C.I.) ^a	p-Value
Born ≥ 1942	Low	54	22.2	0.79 (0.62,1.02)	0.069
	Medium	71	26.8		
	High	111	13.5		
Born < 1942	Low	113	21.2	1.16 (0.92,1.47)	0.199
	Medium	96	22.9		
	High	59	27.1		

b) MODEL 3: RANCH HANDS AND COMPARISONS BY DIOXIN CATEGORY — ADJUSTED (Dioxin Category-by-Age: Tables 15-8 and K-3-6)					
Stratum	Dioxin Category	n	Percent Abnormal	Adjusted Relative Risk (95% C.I.) ^b	p-Value
Born ≥ 1942	Comparison	445	20.0		
	Background RH	127	17.3	0.89 (0.53,1.49)	0.648
	Low RH	84	23.8	1.26 (0.72,2.19)	0.422
	High RH	154	17.5	0.83 (0.51,1.34)	0.440
	Low plus High RH	238	19.7	0.97 (0.65,1.44)	0.878
Born < 1942	Comparison	597	19.6		
	Background RH	241	20.7	1.11 (0.76,1.61)	0.591
	Low RH	169	20.7	1.05 (0.69,1.61)	0.820
	High RH	105	25.7	1.45 (0.68,3.13)	0.338
	Low plus High RH	274	22.6	1.20 (0.84,1.70)	0.319

^a Relative risk for a twofold increase in initial dioxin.

^b Relative risk and confidence interval relative to Comparisons.

Note: Model 2: Low = 39-98 ppt; Medium = > 98-232 ppt; High = > 232 ppt.

Model 3: RH = Ranch Hand.

Comparison: Current Dioxin ≤ 10 ppt.

Background (Ranch Hand): Current Dioxin ≤ 10 ppt.

Low (Ranch Hand): Current Dioxin > 10 ppt, 10 ppt < Initial Dioxin ≤ 143 ppt.

High (Ranch Hand): Current Dioxin > 10 ppt, Initial Dioxin > 143 ppt.

Table K-4-3.
Interaction Table for Right Bundle Branch Block (RBBB)
Diabetic Class Removed from Final Model

a) MODEL 2: RANCH HANDS — INITIAL DIOXIN — ADJUSTED (Initial Dioxin-by-Lifetime Cigarette Smoking History: Tables 15-10 and K-3-8)				
Stratum	Initial Dioxin Category Summary Statistics			Analysis Results for Log ₂ (Initial Dioxin)
	Initial Dioxin	n	Percent Abnormal	
0 Pack-years	Low	45	0.0	1.17 (0.24,5.68) 0.845
	Medium	38	2.6	
	High	53	0.0	
>0-10 Pack-years	Low	52	0.0	3.97 (1.08,14.61) 0.038
	Medium	44	0.0	
	High	65	3.1	
>10 Pack-years	Low	72	4.2	0.71 (0.30,1.70) 0.447
	Medium	90	3.3	
	High	54	0.0	

^a Relative risk for a twofold increase in initial dioxin.

Note: Model 2: Low = 39-98 ppt; Medium = > 98-232 ppt; High = > 232 ppt.

Table K-4-4.
Interaction Table for ECG: Non-Specific ST- and T-Wave Changes
Body Fat, Total Cholesterol, and Diabetic Class Removed from Final Model

a) MODEL 3: RANCH HANDS AND COMPARISONS BY DIOXIN CATEGORY — ADJUSTED (Dioxin Category-by-Lifetime Cigarette Smoking History: Tables 15-12 and K-3-9)					
Stratum	Dioxin Category	n	Percent Abnormal	Adjusted Relative Risk (95% C.I.)^a	p-Value
0 Pack-years	Comparison	276	14.9		
	Background RH	109	8.3	0.48 (0.22,1.05)	0.068
	Low RH	69	13.0	0.67 (0.30,1.48)	0.320
	High RH	67	13.4	0.86 (0.38,1.94)	0.714
	Low plus High RH	136	13.2	0.75 (0.40,1.39)	0.363
>0-10 Pack-years	Comparison	319	11.6		
	Background RH	108	5.6	0.48 (0.19,1.20)	0.117
	Low RH	69	20.3	1.71 (0.84,3.45)	0.137
	High RH	92	7.6	0.72 (0.30,1.72)	0.454
	Low plus High RH	161	13.0	1.17 (0.64,2.11)	0.613
>10 Pack-years	Comparison	448	17.0		
	Background RH	153	15.7	0.95 (0.56,1.59)	0.833
	Low RH	116	17.2	0.87 (0.50,1.53)	0.630
	High RH	100	20.0	1.43 (0.81,2.52)	0.223
	Low plus High RH	216	18.5	1.09 (0.70,1.70)	0.692

^a Relative risk and confidence interval relative to Comparisons.

Note: Model 3: RH = Ranch Hand.

Comparison: Current Dioxin \leq 10 ppt.

Background (Ranch Hand): Current Dioxin \leq 10 ppt.

Low (Ranch Hand): Current Dioxin $>$ 10 ppt, 10 ppt $<$ Initial Dioxin \leq 143 ppt.

High (Ranch Hand): Current Dioxin $>$ 10 ppt, Initial Dioxin $>$ 143 ppt.

Table K-4-5.
Interaction Table for ECG: Bradycardia
Total Cholesterol, HDL Cholesterol, Body Fat, and Diabetic Class Removed from Final Model

a) MODEL 3: RANCH HANDS AND COMPARISONS BY DIOXIN CATEGORY — ADJUSTED (Dioxin Category-by-Personality Type: Tables 15-13 and K-3-10)					
Stratum	Dioxin Category	n	Percent Abnormal	Adjusted Relative Risk (95% C.I.) ^a	p-Value
Type A	Comparison	438	3.0		
	Background RH	175	2.9	1.08 (0.38,3.13)	0.883
	Low RH	111	5.4	1.97 (0.72,5.35)	0.184
	High RH	100	3.0	0.93 (0.26,3.38)	0.912
	Low plus High RH	211	4.3	1.45 (0.60,3.47)	0.406
Type B	Comparison	607	1.6		
	Background RH	196	6.6	3.80 (1.62,8.93)	0.002
	Low RH	142	1.4	0.86 (0.18,3.98)	0.843
	High RH	159	0.0	--	--
	Low plus High RH	301	0.7	0.38 (0.08,1.78)	0.221

b) MODEL 4: RANCH HANDS — CURRENT DIOXIN — ADJUSTED			
(Current Dioxin-by-Personality Type: Tables 15-13 and K-3-10)			
Current Dioxin Category Summary Statistics			Analysis Results for Log ₂ (Current Dioxin + 1)
Stratum	Current Dioxin	n	Percent Abnormal
Type A	Low	136	3.7
	Medium	130	3.8
	High	114	3.5
Type B	Low	154	7.1
	Medium	155	2.6
	High	174	0.0

Table K-4-5. (Continued)
Interaction Table for ECG: Bradycardia
Total Cholesterol, HDL Cholesterol, Body Fat, and Diabetic Class Removed from Final Model

c) MODEL 5: RANCH HANDS — CURRENT DIOXIN — ADJUSTED (Current Dioxin-by-Personality Type: Tables 15-13 and K-3-10)			
Stratum	Current Dioxin Category Summary Statistics		Analysis Results for \log_2 (Current Dioxin + 1)
	Current Dioxin	n	
Type A	Low	128	3.1
	Medium	136	4.4
	High	116	3.4
Type B	Low	166	6.0
	Medium	147	3.4
	High	170	0.0

d) MODEL 6: RANCH HANDS — CURRENT DIOXIN — ADJUSTED (Current Dioxin-by-Personality Type: Tables 15-13 and K-3-10)			
Stratum	Current Dioxin Category Summary Statistics		Analysis Results for \log_2 (Current Dioxin + 1)
	Current Dioxin	n	
Type A	Low	127	3.1
	Medium	136	4.4
	High	116	3.4
Type B	Low	166	6.0
	Medium	147	3.4
	High	170	0.0

^a Relative risk and confidence interval relative to Comparisons.

^b Relative risk for a twofold increase in current dioxin.

--: Adjusted relative risk, confidence interval, and p-value not presented due to the sparse number of abnormalities.

Note: Model 3: RH = Ranch Hand.

Comparison: Current Dioxin \leq 10 ppt.

Background (Ranch Hand): Current Dioxin \leq 10 ppt.

Low (Ranch Hand): Current Dioxin $>$ 10 ppt, 10 ppt $<$ Initial Dioxin \leq 143 ppt.

High (Ranch Hand): Current Dioxin $>$ 143 ppt.

Model 4: Low = \leq 8.1 ppt; Medium = $>$ 8.1-20.5 ppt; High = $>$ 20.5 ppt.

Models 5 and 6: Low = \leq 46 ppq; Medium = $>$ 46-128 ppq; High = $>$ 128 ppq.

Table K-4-6.
Interaction Table for ECG: Arrhythmia
Diabetic Class and HDL Removed from Final Model

a) MODEL 2: RANCH HANDS — INITIAL DIOXIN — ADJUSTED (Initial Dioxin-by-Current Cigarette Smoking: Tables 15-15 and K-3-11)					
Stratum	Initial Dioxin Category Summary Statistics			Analysis Results for Log ₂ (Initial Dioxin)	
	Initial Dioxin	n	Percent Abnormal	Adjusted Relative Risk (95% C.I.)*	p-Value
0-Never Smoked	Low	45	2.2	1.71 (1.06,2.77)	0.029
	Medium	38	2.6		
	High	53	11.3		
0-Former Smoker	Low	88	6.8	1.06 (0.66,1.71)	0.810
	Medium	80	3.8		
	High	67	3.0		
>0-20 Cigarettes/Day	Low	24	12.5	0.52 (0.23,1.16)	0.111
	Medium	30	13.3		
	High	34	0.0		
>20 Cigarettes/Day	Low	12	8.3	0.36 (0.06,2.00)	0.242
	Medium	24	8.3		
	High	18	0.0		

* Relative risk for a twofold increase in initial dioxin.

Note: Low = 39-98 ppt; Medium = >98-232 ppt; High = >232 ppt.

Table K-4-7.
Interaction Table for Diastolic Blood Pressure (mm Hg) (Continuous)
Cholesterol, Body Fat, and Diabetic Class Removed from Final Model

a) MODEL 3: RANCH HANDS AND COMPARISONS BY DIOXIN CATEGORY — ADJUSTED (Dioxin Category-by-Family History of Heart Disease: Tables 15-18 and K-3-14)					
Stratum	Dioxin Category	n	Adjusted Mean	Difference of Adjusted Mean vs. Comparisons (95% C.I.)	p-Value
No	Comparison	451	72.90		
	Background RH	139	73.64	0.74 (-1.05,2.53)	0.419
	Low RH	113	73.76	0.86 (-1.07,2.80)	0.384
	High RH	108	72.45	-0.45 (-2.42,1.53)	0.658
	Low plus High RH	221	73.11	0.23 (-1.29,1.74)	0.770
Yes	Comparison	584	74.07		
	Background RH	225	72.45	-1.62 (-3.07,-0.18)	0.028
	Low RH	136	72.22	-1.85 (-3.61,-0.10)	0.039
	High RH	148	74.65	0.58 (-1.12,2.28)	0.506
	Low plus High RH	284	73.48	-0.59 (-1.92,0.75)	0.390

Note: Model 3: RH = Ranch Hand.

Comparison: Current Dioxin \leq 10 ppt.

Background (Ranch Hand): Current Dioxin \leq 10 ppt.

Low (Ranch Hand): Current Dioxin > 10 ppt, 10 ppt < Initial Dioxin \leq 143 ppt.

High (Ranch Hand): Current Dioxin > 10 ppt, Initial Dioxin > 143 ppt.

Table K-4-8.
Interaction Table for Diastolic Blood Pressure (Discrete)
Body Fat Removed from Final Model

a) MODEL 3: RANCH HANDS AND COMPARISONS BY DIOXIN CATEGORY — ADJUSTED (Dioxin Category-by-Family History of Heart Disease: Tables 15-19 and K-3-15)					
Stratum	Dioxin Category	n	Percent Abnormal	Adjusted Relative Risk (95% C.I.)^a	p-Value
No	Comparison	450	3.3		
	Background RH	139	3.6	1.27 (0.45,3.59)	0.657
	Low RH	112	4.5	1.50 (0.53,4.28)	0.444
	High RH	108	2.8	0.68 (0.19,2.44)	0.555
	Low plus High RH	220	3.6	1.04 (0.43,2.52)	0.925
Yes	Comparison	584	2.9		
	Background RH	225	1.3	0.48 (0.14,1.67)	0.248
	Low RH	136	0.0	--	--
	High RH	148	5.4	1.79 (0.75,4.28)	0.192
	Low plus High RH	284	2.8	0.91 (0.38,2.15)	0.822

^a Relative risk and confidence interval relative to Comparisons.

--: Adjusted relative risk, confidence interval, and p-value not presented due to the sparse number of abnormalities.

Note: Model 3: RH = Ranch Hand.

Comparison: Current Dioxin \leq 10 ppt.

Background (Ranch Hand): Current Dioxin \leq 10 ppt.

Low (Ranch Hand): Current Dioxin $>$ 10 ppt, 10 ppt $<$ Initial Dioxin \leq 143 ppt.

High (Ranch Hand): Current Dioxin $>$ 10 ppt, Initial Dioxin $>$ 143 ppt.

Table K-4-9.
Interaction Table for Funduscopic Examination
Occupation, Body Fat, and Diabetic Class Removed from Final Model

a) MODEL 2: RANCH HANDS — INITIAL DIOXIN — ADJUSTED (Initial Dioxin-by-Race: Tables 15-20 and K-3-16)				
Stratum	Initial Dioxin Category Summary Statistics			Analysis Results for Log _e (Initial Dioxin)
	Initial Dioxin	n	Percent Abnormal	
Non-Black	Low	151	4.6	1.20 (0.94,1.52) 0.144
	Medium	162	8.0	
	High	162	9.9	
Black	Low	16	12.5	0.04 (0.00,2.30) 0.121
	Medium	9	0.0	
	High	9	0.0	

^a Relative risk for a twofold increase in initial dioxin.

Note: Model 2: Low = 39-98 ppt; Medium = > 98-232 ppt; High = > 232 ppt.

Table K-4-10.
Interaction Table for Carotid Bruits
Occupation Removed from Final Model

a) MODEL 2: RANCH HANDS — INITIAL DIOXIN — ADJUSTED (Initial Dioxin-by-Lifetime Cigarette Smoking History: Tables 15-21 and K-3-17)				
Stratum	Initial Dioxin Category Summary Statistics			Analysis Results for \log_2 (Initial Dioxin)
	Initial Dioxin	n	Percent Abnormal	
0 Pack-years	Low	43	4.6	0.47 (0.06,3.39) 0.453
	Medium	35	0.0	
	High	49	0.0	
>0-10 Pack-years	Low	51	5.9	0.47 (0.18,1.24) 0.125
	Medium	42	2.4	
	High	63	1.6	
>10 Pack-years	Low	70	0.0	2.50 (0.89,7.00) 0.082
	Medium	86	1.2	
	High	53	1.9	

b) MODEL 2: RANCH HANDS — INITIAL DIOXIN — ADJUSTED (Initial Dioxin-by-Family History of Heart Disease: Tables 15-21 and K-3-17)				
Stratum	Initial Dioxin Category Summary Statistics			Analysis Results for \log_2 (Initial Dioxin)
	Initial Dioxin	n	Percent Abnormal	
No	Low	69	2.9	0.27 (0.03,2.65) 0.263
	Medium	74	0.0	
	High	73	0.0	
Yes	Low	95	3.2	1.06 (0.59,1.93) 0.841
	Medium	89	2.2	
	High	92	2.2	

Table K-4-10. (Continued)
Interaction Table for Carotid Bruits
Cholesterol Removed from Final Model

c) MODEL 6: RANCH HANDS — CURRENT DIOXIN — ADJUSTED
(Current Dioxin-by-Family History of Heart Disease: Tables 15-21 and K-3-17)

Current Dioxin Category Summary Statistics				Analysis Results for Log ₂ (Current Dioxin + 1)	
Stratum	Current Dioxin	n	Percent Abnormal	Adjusted Relative Risk (95% C.I.) ^b	p-Value
No	Low	110	1.8	0.39 (0.23,0.67)	0.001
	Medium	119	1.7		
	High	125	0.0		
Yes	Low	179	2.2	1.07 (0.70,1.62)	0.761
	Medium	161	2.5		
	High	156	2.6		

^a Relative risk for a twofold increase in initial dioxin.

^b Relative risk for a twofold increase in current dioxin.

Note: Model 2: Low = 39-98 ppt; Medium = > 98-232 ppt; High = > 232 ppt.

Model 6: Low = ≤ 46 ppq; Medium = > 46-128 ppq; High = > 128 ppq.

Table K-4-11.
Interaction Table for Dorsalis Pedis Pulses
Diabetic Class Removed from Final Model

a) MODEL 3: RANCH HANDS AND COMPARISONS BY DIOXIN CATEGORY — ADJUSTED (Dioxin Category-by-Age: Tables 15-25 and K-3-20)					
Stratum	Dioxin Category	n	Percent Abnormal	Adjusted Relative Risk (95% C.I.)^a	p-Value
Born ≥ 1942	Comparison	447	6.7		
	Background RH	126	4.8	0.65 (0.26,1.62)	0.355
	Low RH	84	4.8	0.68 (0.23,1.98)	0.478
	High RH	153	5.2	0.78 (0.34,1.75)	0.544
	Low plus High RH	237	5.1	0.74 (0.37,1.49)	0.399
Born < 1942	Comparison	596	8.2		
	Background RH	243	11.1	1.41 (0.83,2.35)	0.183
	Low RH	170	9.4	1.13 (0.62,2.07)	0.687
	High RH	105	16.2	2.07 (1.13,3.82)	0.019
	Low plus High RH	275	12.0	1.48 (0.92,2.38)	0.110

^a Relative risk and confidence interval relative to Comparisons.

Note: Model 3: RH = Ranch Hand.

Comparison: Current Dioxin ≤ 10 ppt.

Background (Ranch Hand): Current Dioxin ≤ 10 ppt.

Low (Ranch Hand): Current Dioxin > 10 ppt, 10 ppt < Initial Dioxin ≤ 143 ppt.

High (Ranch Hand): Current Dioxin > 10 ppt, Initial Dioxin > 143 ppt.

Table K-4-12.
Interaction Table for Posterior Tibial Pulses
Occupation, HDL, Body Fat, and Diabetic Class Removed from Final Model

a) MODEL 2: RANCH HANDS — INITIAL DIOXIN — ADJUSTED (Initial Dioxin-by-Lifetime Cigarette Smoking History: Tables 15-26 and K-3-21)				
Stratum	Initial Dioxin Category Summary Statistics			Analysis Results for Log_e (Initial Dioxin)
	Initial Dioxin	n	Percent Abnormal	
0-10 Pack-years	Low	96	1.0	1.22 (0.58,2.60) 0.600
	Medium	80	1.3	
	High	116	1.7	
>10 Pack-years	Low	71	9.9	0.78 (0.46,1.34) 0.372
	Medium	88	9.1	
	High	54	3.7	

Table K-4-12. (Continued)
Interaction Table for Posterior Tibial Pulses
Occupation, HDL, Body Fat, and Diabetic Class Removed from Final Model

b) MODEL 3: RANCH HANDS AND COMPARISONS BY DIOXIN CATEGORY -- ADJUSTED (Dioxin Category-by-Current Cigarette Smoking: Tables 15-26 and K-3-21)					
Stratum	Dioxin Category	n	Percent Abnormal	Adjusted Relative Risk (95% C.I.)^a	p-Value
0-Never Smoked	Comparison	277	0.7		
	Background RH	109	1.8	2.24 (0.97,5.19)	0.060
	Low RH	69	0.0	--	--
	High RH	67	0.0	--	--
	Low plus High RH	136	0.0	--	--
0-Former Smoker	Comparison	520	1.9		
	Background RH	170	2.4	1.20 (0.52,2.78)	0.670
	Low RH	123	3.3	1.47 (0.45,4.77)	0.519
	High RH	112	2.7	2.04 (0.92,4.50)	0.079
	Low plus High RH	235	3.0	1.70 (0.64,4.55)	0.290
>0-20 Cigarettes/Day	Comparison	149	2.0		
	Background RH	56	7.1	3.11 (1.34,7.21)	0.008
	Low RH	39	7.7	3.87 (0.89,16.76)	0.070
	High RH	49	12.2	11.83 (5.35,26.17)	<0.001
	Low plus High RH	88	10.2	6.98 (2.12,22.98)	0.001
>20 Cigarettes/Day	Comparison	97	9.3		
	Background RH	36	0.0	--	--
	Low RH	23	13.0	1.81 (0.40,8.27)	0.443
	High RH	31	12.9	1.97 (0.89,4.35)	0.095
	Low plus High RH	54	13.0	1.88 (0.51,6.94)	0.345

^a Relative risk^a for a twofold increase in initial dioxin.

^b Relative risk and confidence interval relative to Comparisons.

--: Adjusted relative risk, confidence interval, and p-value not presented due to the sparse number of abnormalities.

Note: Model 2: Low = 39-98 ppt; Medium = > 98-232 ppt; High = > 232 ppt.

Model 3: RH = Ranch Hand.

Comparison: Current Dioxin ≤ 10 ppt.

Background (Ranch Hand): Current Dioxin ≤ 10 ppt.

Low (Ranch Hand): Current Dioxin > 10 ppt, 10 ppt < Initial Dioxin ≤ 143 ppt.

High (Ranch Hand): Current Dioxin > 10 ppt, Initial Dioxin > 143 ppt.

Table K-4-13.
Interaction Table for Leg Pulses
Occupation and Diabetic Class Removed from Final Model

a) MODEL 2: RANCH HANDS — INITIAL DIOXIN — ADJUSTED (Initial Dioxin-by-Personality Type: Tables 15-27 and K-3-22)					
Stratum	Initial Dioxin Category Summary Statistics			Analysis Results for Log₂ (Initial Dioxin)	
	Initial Dioxin	n	Percent Abnormal	Adjusted Relative Risk (95% C.I.)^a	p-Value
Type A	Low	78	14.1	0.80 (0.53,1.21)	0.282
	Medium	70	12.9		
	High	62	3.2		
Type B	Low	90	3.3	1.40 (1.05,1.87)	0.023
	Medium	102	12.7		
	High	109	11.0		

^a Relative risk for a twofold increase in initial dioxin.

Note: Model 2: Low = 39-98 ppt; Medium = > 98-232 ppt; High = > 232 ppt.

Table K-4-14.
Interaction Table for Peripheral Pulses
Occupation and Diabetic Class Removed from Final Model

a) MODEL 2: RANCH HANDS — INITIAL DIOXIN — ADJUSTED (Initial Dioxin-by-Personality Type: Tables 15-28 and K-3-23)					
Stratum	Initial Dioxin Category Summary Statistics			Analysis Results for Log₂ (Initial Dioxin)	
	Initial Dioxin	n	Percent Abnormal	Adjusted Relative Risk (95% C.I.)^a	p-Value
Type A	Low	78	14.1	0.80 (0.53,1.21)	0.282
	Medium	70	12.9		
	High	62	3.2		
Type B	Low	90	3.3	1.40 (1.05,1.87)	0.023
	Medium	102	12.7		
	High	109	11.0		

^a Relative risk for a two-fold increase in initial dioxin.

Note: Model 2: Low = 39-98 ppt; Medium = > 98-232 ppt; High = > 232 ppt.